

Title (en)

ALERT LOG COMPRESSION METHOD, APPARATUS AND SYSTEM, AND STORAGE MEDIUM

Title (de)

VERFAHREN, VORRICHTUNG UND SYSTEM ZUR WARNPROTOKOLLKOMPRIMIERUNG UND SPEICHERMEDIUM

Title (fr)

PROCÉDÉ, APPAREIL ET SYSTÈME DE COMPRESSION DE JOURNAUX D'ALERTE, ET SUPPORT DE STOCKAGE

Publication

**EP 3779718 A1 20210217 (EN)**

Application

**EP 18916274 A 20181227**

Priority

- CN 201810370889 A 20180423
- CN 2018124144 W 20181227

Abstract (en)

This application discloses an alarm log compression method, apparatus, and system, and a storage medium, and belongs to the field of communications technologies. The method includes: obtaining a historical alarm log set generated by a first network device in a communications network; dividing the historical alarm log set into a plurality of historical alarm log subsets based on a generation time stamp of a historical alarm log in the historical alarm log set, where all historical alarm logs in each historical alarm log subset are consecutive in a time sequence; determining a correspondence between an alarm type in the historical alarm log set and the plurality of historical alarm log subsets; performing clustering processing on the alarm types in the historical alarm log set based on the correspondence, to generate at least one association rule; and compressing a plurality of to-be-processed alarm logs based on the at least one association rule, to obtain an alarm log whose alarm type is a root cause alarm type. This application resolves a problem that an association rule mining efficiency is relatively low and time costs are relatively high.

IPC 8 full level

**G06F 16/215** (2019.01); **H04L 12/24** (2006.01)

CPC (source: CN EP KR US)

**G06F 16/174** (2018.12 - EP KR); **G06F 16/1744** (2018.12 - CN US); **G06F 16/18** (2018.12 - KR); **G06F 16/1815** (2018.12 - CN); **G06F 16/215** (2018.12 - KR); **G06F 16/2465** (2018.12 - US); **G06F 16/285** (2018.12 - US); **G06F 18/23** (2023.01 - CN); **H04L 41/0604** (2013.01 - EP); **H04L 41/0631** (2013.01 - EP US); **H04L 41/069** (2013.01 - EP US); **H04L 41/142** (2013.01 - EP); **G06F 2216/03** (2013.01 - US)

Cited by

GB2619897A; WO2022214324A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3779718 A1 20210217**; **EP 3779718 A4 20210609**; CA 3098860 A1 20191031; CA 3098860 C 20230926; CN 110399347 A 20191101; CN 110399347 B 20210518; CN 113407507 A 20210917; CN 113407507 B 20220429; JP 2021519988 A 20210812; JP 2022160405 A 20221019; JP 7100155 B2 20220712; JP 7325584 B2 20230814; KR 102520044 B1 20230411; KR 20210002602 A 20210108; US 11436196 B2 20220906; US 2021042270 A1 20210211; WO 2019205697 A1 20191031

DOCDB simple family (application)

**EP 18916274 A 20181227**; CA 3098860 A 20181227; CN 201810370889 A 20180423; CN 2018124144 W 20181227; CN 202110542595 A 20180423; JP 2020558938 A 20181227; JP 2022105841 A 20220630; KR 20207033540 A 20181227; US 202017077638 A 20201022